

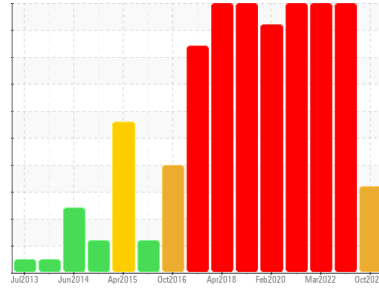


PROBLEM SUMMARY



Machine Id
CATERPILLAR 308E 8378 (S/N GBJ00563)
 Component
Left Final Drive
 Fluid
TDTO FLUID SAE 10W (--- GAL)

Sample Rating Trend

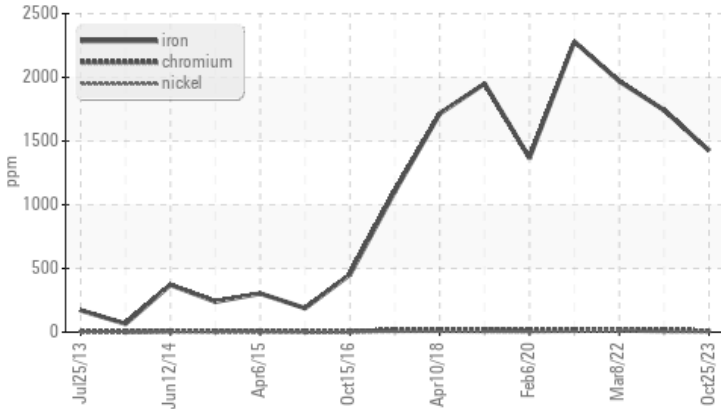


WATER

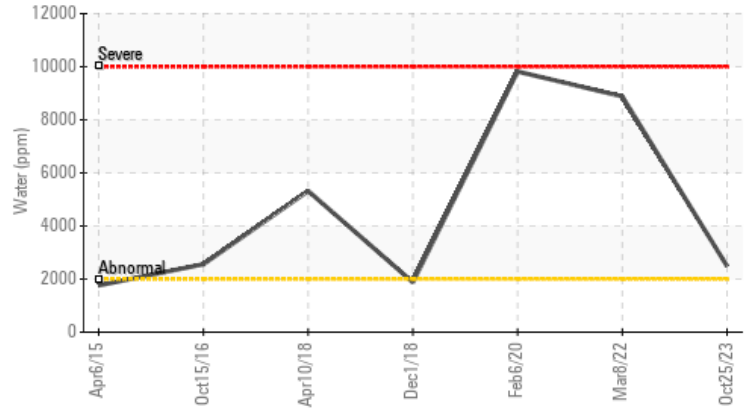


COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Water (KF)



RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>800	▲ 1425	● 1743	● 1969
Chromium	ppm	ASTM D5185m	>10	▲ 11	▲ 14	▲ 17
Water	%	ASTM D6304	>0.2	▲ 0.249	---	▲ 0.888
ppm Water	ppm	ASTM D6304	>2000	▲ 2490	---	▲ 8880

Customer Id: TRANEW
 Sample No.: WC0862918
 Lab Number: 05994644
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

02 Mar 2023 Diag: Don Baldrige

WEAR



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



08 Mar 2022 Diag: Don Baldrige

WEAR



We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The iron level has decreased, but is still abnormal. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



02 Mar 2021 Diag: Don Baldrige

WEAR



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

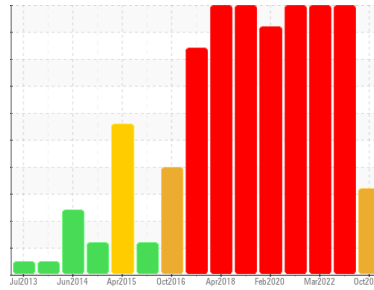
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
CATERPILLAR 308E 8378 (S/N GBJ00563)
 Component
Left Final Drive
 Fluid
TDTO FLUID SAE 10W (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

There is a light concentration of water present in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0862918	WC0776007	WC0674151
Sample Date	Client Info		25 Oct 2023	02 Mar 2023	08 Mar 2022
Machine Age	hrs	Client Info	7955	7497	7038
Oil Age	hrs	Client Info	458	459	440
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	▲ 1425	1743	1969
Chromium	ppm	ASTM D5185m >10	▲ 11	14	17
Nickel	ppm	ASTM D5185m >5	2	4	8
Titanium	ppm	ASTM D5185m >15	<1	2	5
Silver	ppm	ASTM D5185m >2	0	0	1
Aluminum	ppm	ASTM D5185m >75	9	16	50
Lead	ppm	ASTM D5185m >10	0	0	<1
Copper	ppm	ASTM D5185m >75	3	2	3
Tin	ppm	ASTM D5185m >8	0	0	<1
Antimony	ppm	ASTM D5185m >50	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 37	220	181	226
Barium	ppm	ASTM D5185m 7	0	0	0
Molybdenum	ppm	ASTM D5185m 5	0	<1	2
Manganese	ppm	ASTM D5185m	8	12	12
Magnesium	ppm	ASTM D5185m 40	17	4	5
Calcium	ppm	ASTM D5185m 2650	25	61	68
Phosphorus	ppm	ASTM D5185m 1050	1185	768	1533
Zinc	ppm	ASTM D5185m 1075	18	0	21
Sulfur	ppm	ASTM D5185m 5750	16493	8592	21642

CONTAMINANTS

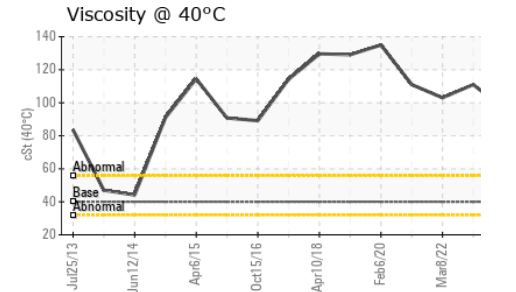
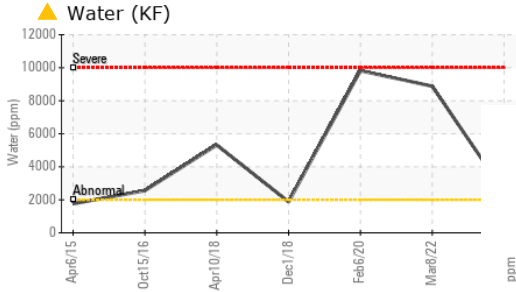
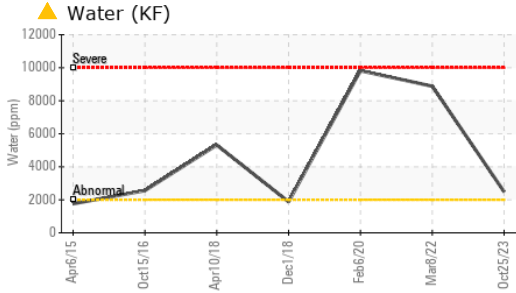
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	73	180	342
Sodium	ppm	ASTM D5185m	3	1	2
Potassium	ppm	ASTM D5185m >20	2	3	7
Water	%	ASTM D6304 >0.2	▲ 0.249	---	▲ 0.888
ppm Water	ppm	ASTM D6304 >2000	▲ 2490	---	▲ 8880

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	▲ MODER	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	0.2%	NEG	▲ 0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG



OIL ANALYSIS REPORT

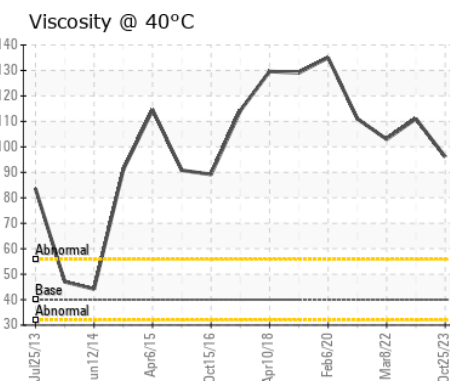
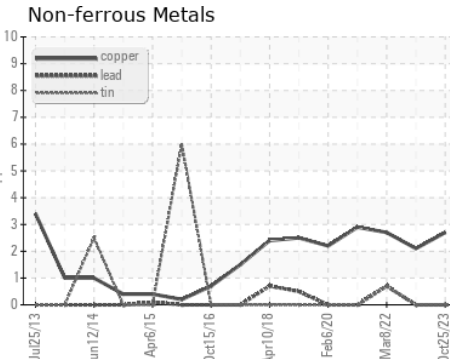
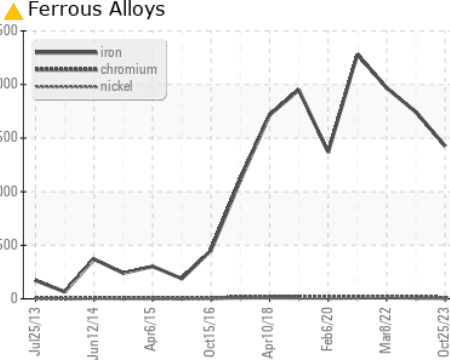


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	40	96.1	111	103

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0862918
Lab Number : 05994644
Unique Number : 10723004
Test Package : CONST (Additional Tests: KF)

Received : 31 Oct 2023
Diagnosed : 01 Nov 2023
Diagnostician : Don Baldrige

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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